

CLAIMS

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1. A brushless motor comprising:

5 a rotor with a permanent magnet having P (P is an integer not less than two) pieces of polarity; and

a stator facing said rotor and having a plurality of coils, wherein any one of the coils has isosceles sides interlinking with magnetic field generated by the polarities, and extension lines of the isosceles sides, extending through centers of winding-bundles of the coil, toward a shaft center cross each other at the shaft center and form an angle of $360/P$ degree.

2. The brushless motor as defined in Claim 1, wherein an outer rim of the coil measures not more than $\phi 40$ mm.

15 3. The brushless motor as defined in Claim 1, wherein the coil winding-bundles forming the isosceles sides are disposed within an area covered by an angle of $360/(4 \times P)$ degree both inside and outside with respect to a center of the angle of $360/P$ degree.

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20 4. The brushless motor as defined in Claim 3, wherein the coils adjacent to each other is spaced out at intervals of $(360/P) \times (5/3)$ degree.

25 5. The brushless motor as defined in Claim 4 further comprising three position detectors for detecting a position of said rotor, wherein said detectors are placed at intervals of $(360/P) \times (2/3)$ degree and in an area where the coils are not placed.

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